

Docket No.: 013436.0235PTUS

(Bortolini 6-7-1) (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Edward J. Bortolini et al.

Application No.: 09/766736 Confirmation No.: 1298

Filed: January 22, 2001 Art Unit: 2623

For: DISTRIBUTED BROADBAND CABLE Examiner: U. Raman

MODEM TERMINATION SYSTEM

AFFIDAVIT FILED UNDER 37CFR 1.47(A) IN SUPPORT OF A PETITION TO ACCEPT THE FILING OF A RULE 131 DECLARATION IN THE ABSENCE OF ALL OF THE INVENTORS' SIGNATURES

- 1. The inventors named in this Application, Edward J. Bortolini, Chia Chang Li, and Roger W. Loots, are the inventors named in the Present Application, Serial Number 09/766736, filed on January 22, 2001.
- 2. The inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots executed both the Declaration (copy attached hereto as Exhibit A) in the Present Application and an Assignment of the Present Application (copy attached hereto as Exhibit B), assigning all rights in the invention described and claimed in the Present Application to Lucent Technologies, Inc. (termed "Applicant" herein).
- 3. The undersigned James Graziano (termed "Attorney of Record" herein) is an attorney for Applicant.
- 4. Attorney of Record in the Present Application, forwarded a copy of the Rule 131 Declaration to the inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots and has received confirmation that such copy was forwarded.
- 5. Attorney of Record communicated with the inventor Edward J. Bortolini, located at a last known address of 18 Shady Hollow, Nederland, Colorado 80466, to request that inventor Edward J. Bortolini execute the Rule 131 Declaration for the present Application.

- 6. Attorney of Record communicated with Chia Chang Li, located at a last known address of 26 Longview Drive, Holmdel, New Jersey 07733, to request that inventor Chia Chang Li execute the Rule 131 Declaration for the present Application.
- 7. Attorney of Record communicated with Roger W. Loots, located at a last known address of 3515 Buffalo Avenue, Broomfield, Colorado 80020, to request that inventor Roger W. Loots execute the Rule 131 Declaration for the present Application.
- 8. The inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots have failed to execute the Rule 131 Declaration for the present Application in a timely manner as required by the Rules of the USPTO.
- 9. The inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots have agreed in the Assignment filed in the Present Application that "We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.", and also "We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.".
- 10. The inventor Edward J. Bortolini has indicated that he wishes to receive additional compensation for the execution of the Rule 131 Declaration required to perfect the filing of the Present Application that describes and claims the invention made by the inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots.
- 11. The inventors Chia Chang Li, and Roger W. Loots have failed to respond to repeated attempts to contact them via Registered Mail and Telephone calls. These attempts were delivery of the Rule 131 Declaration required to perfect the filing of the Present Application that describes and claims the invention made by the inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots and subsequent requests for them to execute the Rule 131 Declaration required to perfect the filing of the present Application that describes and claims the invention made by the inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots, respectively.

- 11. The inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots have executed Employment Agreements (attached hereto as Exhibits C, D, and E, respectively) with Applicant dated 1 March 1991, 27 July 1998, and 3 July 1978, respectively, which Employment Agreements specifically transfer all right, title, and interest in and to any intellectual property to Applicant which intellectual property shall be and remain the sole and exclusive property of Applicant (Section A of the Employment Agreements).
- 12. The inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots have, by their above-described actions and inaction, constructively refused to sign the Rule 131 Declaration required to perfect the filing of the Present Application that describes and claims the invention made by the inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots.
- 13. The undersigned Attorney of Record has personal knowledge of the above-recited facts relating to the constructive refusal of the inventors Edward J. Bortolini, Chia Chang Li, and Roger W. Loots to sign the Rule 131 Declaration in the Present Application, and collected the attached Exhibits from official corporate records.
- 14. I further declare that all statements herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

14 SEPTEMBEN 2006

Date

James Graziano

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **DISTRIBUTED BROADBAND CABLE MODEM TERMINATION SYSTEM** the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

| Thomas J. Bean | (Reg. No. 44528) |
|------------------------|--------------------|
| Lester H. Birnbaum | (Reg. No. 25830) |
| Richard J. Botos | (Reg. No. 32016) |
| Jeffery J. Brosemer | (Reg. No. 36096) |
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| John P. Veschi | (Reg. No. 39058) |
| JOHN I . V GOOM | (1769. 140. 23020) |

David Volejnicek (Reg. No. 29355) Charles L. Warren (Reg. No. 27407) Jeffrey M. Weinick (Reg. No. 36304) Eli Weiss (Reg. No. 17765)

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

| Full name o | f 1st joint inventor: Edward J. Bortolini | | |
|-------------------------|---|----------|------------|
| Inventor's signature | Edward Bot | Date | 11/19/2000 |
| Residence: | 18 Shady Hollow Nederland, CO 80466 | | |
| Citizenship: | USA | | |
| Full name o | f 2nd joint inventor: Chia Chang Li | | |
| Inventor's signature | | Date | |
| Residence: | 26 Longview Drive Holmdel, NJ 07733 | | |
| Citizenship: | USA | | |
| Full name o | f 3rd joint inventor: Roger W. Loots | | |
| Inventor's signature | | Date | |
| Residence: | 3515 Buffalo Avenue Broomfield, CO 80020 | | |
| Citizenship: | USA | | |

ATTACHMENT A

| Attorney Name(s): | James M. Graziano | Reg. No.: | 28,300 |
|---------------------|-------------------------------------|------------|--------|
| - | | | |
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| | | | |
| Telephone calls sho | uld be made to James M. Gr a | aziano at: | |
| Phone No.: | 303-379-1100 | | |
| Fax No.: | 303-379-1155 | | |
| | | | |

All written communications are to be addressed to:

Customer Number 024283

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **DISTRIBUTED BROADBAND CABLE MODEM TERMINATION SYSTEM** the specification of which is attached hereto.

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Full name of 1st joint inventor: Edward J. Bortolini

Citizenship: USA

| Inventor's signature | | _Date |
|----------------------|---|----------------|
| Residence: | 18 Shady Hollow Nederland, CO 80466 | |
| Citizenship: | USA | |
| Full name of | f 2nd joint inventor: Chia Chang Li | |
| Inventor's signature | cyri | Date 1419/2000 |
| | 26 Longview Drive Holmdel, NJ 07733 | |
| Citizenship: | USA | |
| Full name o | f 3rd joint inventor: Roger W. Loots | |
| Inventor's signature | | _Date |
| Residence: | 3515 Buffalo Avenue Broomfield, CO 80020 | |

ATTACHMENT A

| Attorney Name(s): | James M. Graziano | Reg. No.: | 28,300 |
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| John C. Moran Michael A. Morra Gregory J. Murgia Claude R. Narcisse Joseph J. Opalach Neil R. Ormos Eugen E. Pacher Jack R. Penrod Gregory C. Ranieri Scott J. Rittman Ferdinand M. Romano Eugene J. Rosenthal Bruce S. Schneider Ronald D. Slusky David L. Smith Meg. No. 30782) (Reg. No. 28975) (Reg. No. 38979) (Reg. No. 36229) (Reg. No. 36229) (Reg. No. 35309) (Reg. No. 29964) (Reg. No. 29964) (Reg. No. 31864) (Reg. No. 32752) (Reg. No. 32752) (Reg. No. 32752) (Reg. No. 26585) (Reg. No. 26585) (Reg. No. 30592) (Reg. No. 30592) (Reg. No. 36698) | | |
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| Ozer M. N. Teitelbaum (Reg. No. 36698) | David L. Smith | (Reg. No. 30592) |
| | Ozer M. N. Teitelbaum | (Reg. No. 36698) |
| | John P. Veschi | (Reg. No. 39058) |

Date 12/27/2000

David Volejnicek (Reg. No. 29355) Charles L. Warren (Reg. No. 27407) Jeffrey M. Weinick (Reg. No. 36304) Eli Weiss (Reg. No. 17765)

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name of 1st joint inventor: Edward J. Bortolini

| Inventor's signature | | _Date |
|-------------------------|--|-------|
| Residence: | 18 Shady Hollow Nederland, CO 80466 | |
| Citizenship: | USA | |
| Full name o | f 2nd joint inventor: Chia Chang Li | |
| Inventor's signature | | _Date |
| Residence: | 26 Longview Drive Holmdel, NJ 07733 | |
| Citizenship: | USA | |

Full name of 3rd joint inventor: Roger W. Loots

Inventor's

signature ,

Residence: 3515 Buffalo Avenue

Broomfield, CO 80020

Citizenship: USA

ATTACHMENT A

| Attorney Name(s): | James M. Graziano | Reg. No.: | 28,300 |
|-----------------------|-----------------------------------|------------|--------|
| | | | |
| | | | |
| | | | |
| Telephone calls shoul | d be made to James M. Gr a | aziano at: | |
| Phone No.: | 303-379-1100 | | |
| Fax No.: | 303-379-1155 | | |
| | | | |

All written communications are to be addressed to:

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BORTOLINI, EDWARD J.

DOC DATE: 12/04/2000

ASSIGNOR:

LI, CHIA CHANG

DOC DATE: 12/12/2000

ASSIGNOR:

LOOTS, ROGER W.

DOC DATE: 01/15/2001

ASSIGNEE:

LUCENT TECHNOLOGIES, INC.

600 MOUNTAIN AVENUE (ROOM 3C-512)

P.O. BOX 636

MURRAY HILL, NEW JERSEY 07974-0636

SERIAL NUMBER: 09766736

FILING DATE: 01/22/2001

ISSUE DATE:

PATENT NUMBER:

Date Docketed: 6/6/0/
Docketed by: 4

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EXHIBIT B

J11788/0313 PAGE 2

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| Name (line 1) Bortolini, Edward J. | Month Day Year 12042000 |
| Name (line 2) | |
| Second Party | Execution Date Month Day Year |
| Name (line 1) Li, Chia Chang | 12122000 |
| Name (line 2) | |
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| Address (line 1) Duft, Graziano & Forest, P.C | |
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| Name James M. Graziano | | |
| Address (line 1) Duft, Graziano & Forest, P.C. | | |
| Address (line 2) P.O. Box 270930 | | |
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| James M. Graziano | James my Symon | 22 January 200) |
| Name of Person Signing | ∫ Signature ⁰ | Date |

DGF Docket No.: 6146/133 Lucent Case no.: Bortolini 6-7-1

ASSIGNMENT AND AGREEMENT

For value received, we, Edward J. Bortolini of Nederland in the County of Boulder and State of Colorado, Chia Chang Li of Holmdel in the County of Monmouth and State of New Jersey, and Roger W. Loots of Broomfield in the County of Adams and State of Colorado, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to DISTRIBUTED BROADBAND CABLE MODEM TERMINATION SYSTEM described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. they may designate.

We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

2

Edward J. Bortolini

Date: 12-4-00

United States of America

State of Colorado

) ss.:

)

County of Boulder

My Commission Expires April 7, 2004

Notary Public

4775 Walnut Street

Lucent Technologies Inc. 600 Mountain Avenue (Room 3C-512) P. O. Box 636 Murray Hill, New Jersey 07974-0636

Date: 12-12-00

United States of America

State of New Jersey) ss.:

County of Mormouth)

On this 12 TH day of Dec , 2000, before me personally came Chia Chang Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Mary L Benown
Notary Public

MARY L. BENSON Notary Public of New Jersey My Commission Expires June 3, 2004

same.

| | • |
|--------------------------|--|
| Date: 01/15/2001 | |
| United States of America |) |
| State of Caluado |) ss.: |
| County of adams | |
| On this | day of Anuay, 2000, before me s, to me known to be the individual described in |

and who executed the foregoing instrument, and acknowledged execution of the

BARBARA COSTEY, Notary Public 1200 VI. 100th Attonue Westerfactor, GC 80234

My Commission Expires 3/17/2004

Lucent Technologies Inc. 600 Mountain Avenue (Room 3C-512) P. O. Box 636 Murray Hill, New Jersey 07974-0636

022



EMPLOYEE AGREEMENT REGARDING INTELLECTUAL PROPERTY

IN CONSIDERATION of my employment by AMERICAN TELEPHONE AND TELEGRAPH COMPANY or any of its affiliates (hereinafter "AT&T"), and my continued employment during such time as may be mutually agreeable, and of the opportunity to receive AT&T private or proprietary information, and other good and valuable consideration:

- A. I hereby assign and agree to assign to my employer all my right, title and interest in and to all inventions, discoveries, improvements, ideas, computer or other apparatus programs and related documentation, and other works of authorship (hereinafter each designated "Intellectual Property"), whether or not patentable, copyrightable or subject to other forms of protection, made, created, developed, written or conceived by me during the period of such employment, whether during or outside of regular working hours, either solely or jointly with another, in whole or in part, either
 - 1. in the course of such employment, or
 - relating to the actual or anticipated business or research or development of AT&T, or
 - 3. with the use of AT&T's time, material, private or proprietary information, or tacilities;
- B. I will, without charge to my employer but at its expense, execute a specific assignment of title to AT&T and do anything else reasonably necessary to enable AT&T to secure a patent, copyright or other form of protection for said intellectual Property anywhere in the world;
- C. I further agree that I will keep in confidence and will not, except as required in the conduct of AT&T's business or as authorized in writing on behalf of AT&T, publish, disclose or use, during and after the period of my employment, any private or proprietary information which I may in any way acquire, learn, develop or create by reason of my employment;
- D. I further agree that this Agreement does not constitute a contract of employment; and
- E. I acknowledge that the copyrights in Intellectual Property created within the scope of my employment, belong to AT&T by operation of law.

Signature .

Name (Print).

Payroll Account No.

Date

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GN-79-1460 (5-89)

SEST WIND WE SHOW



LT79-1460 (7/97)

EMPLOYEE AGREEMENT REGARDING INTELLECTUAL PROPERTY

In consideration of my employment by Lucent Technologies Inc. or any of its affiliates (hereinafter "Lucent Technologies"), and my continued employment during such time as may be mutually agreeable, and of the opportunity to receive Lucent Technologies private or proprietary information, and other good and valuable consideration:

A. I hereby assign and agree to assign to Lucent Tachnologies all my right, title and interest in and to all inventions, discoveries, improvements, ideas, mask works, computer or other apparatus programs and related documentation, and other works of authorship (hereinefter each designated "Intellectual Property"), whether or not patentable, copyrightable or subject to other forms of protection, made, created, developed, written or conceived by me during the period of such employment, whether during or outside of regular working hours, either solely or jointly with another, in whole or in part, either:

1. In the course of such employment, or

- Relating to the actual or antidpated business or research or development of Lucent Technologies, or
- With the use of Lucent Technologies time, material, private or proprietary information, or fatilities.
- 8. I will, without charge to Lucent Technologies but at its expense, execute a specific assignment of title to Lucent Technologies and do anything else reasonably necessary to enable Lucent Technologies to secure a patent, copyright or other form of protection for said intellectual Property anywhere in the world.
- C. I further agree that I will keep in confidence and will not, except as required in the conduct of furcent Technologies business or as authorized in writing on behalf of Lucent Technologies, publish, disclose or use, during and after the period of my employment; any private or proprietary information which I may in any way acquire, learn, develop or create by reason of my employment.
- D. I further agree that this Agreement does not constitute a contract of employment.
- E. I acknowledge that the copyrights in Intellectual Property created within the scope of my employment, belong to Lucent Technologies by operation of law.

| (~ 23 | ohia-chang li | 1/21/98 |
|---------------------|------------------------|---------------|
| Employee Signature | Employee Name (Print) | Date |
| 077-66-1777 | Bell Labs | Holmdel, NJ |
| Social Security No. | Lucent Technologies BU | Work Location |

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Employee Agreements Regarding Intellectual Property should be sent to:

IP-Law Service Room

Room 3J-219

101 Crawfords Corner Road

Holmdal, NJ 07733

THE STATE OF THE S

09/11/2006

Questionnaire to be Submitted to Employees Returning from Military Leave of Absence

Educational

Please answer "Yes" or "No" to the following questions:

 During your leave of absence did you make or conceive any inventions relating to subject matter which might be of interest to the Bell System?

No_

2. Did you make any agreement or commitments with respect to inventions made while on leave of absence which may conflict with the reinstatement of your existing agreement with Bell Laboratories to assign inventions?

NO

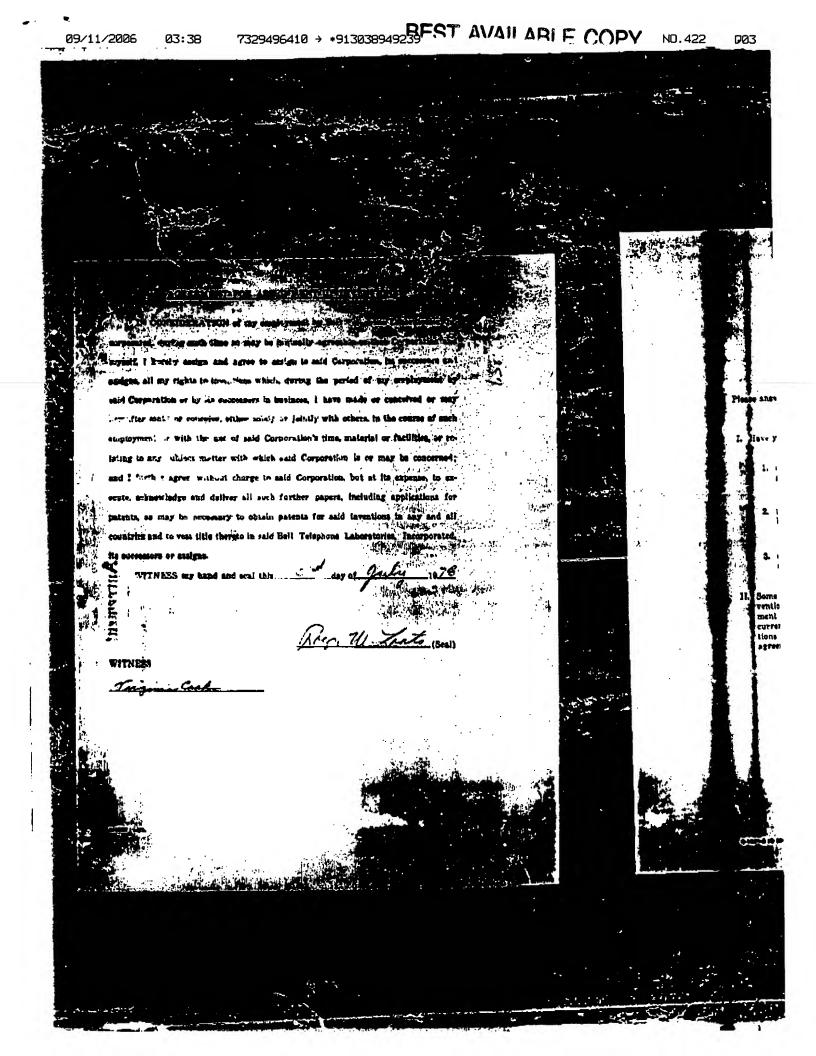
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9 May

EXHIBIT E

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09/11/2006